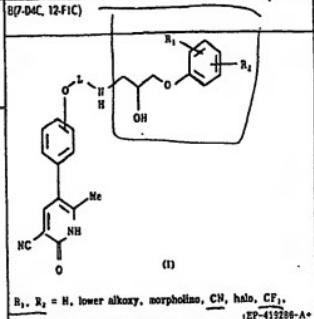


91-004449/13 603 GLAXO 22.09.89
EP 419286-A
GLAXO INC. (+US-411065) (27.03.91) AD18-31/43
09 08 90 US 545297 (+US-411065) (27.03.91) AD18-31/43
C07D 213/65
New phenoxy-subst. pyridone nitro(s) - are used in treating
cardiovascular disease, esp. congestive heart failure
CII-437751 RIAT BE CH DE DK ES FR GB GR IT LI LU NL SE

Pyridone deriva. of formula (II) and their acid addn. salts
are new:



alkyl (opt. subst. by alkoxy or cycloalkoxy), alkylphenyl, NO₂, alklenoxy, NH₂ or mono- or di-alkylamino; L = (CR₂)_nCON(R₃)CR₄R₅ (gr.(s)) or (CR₂R₁)¹; R₁ - R₅ = independently H or lower alkyl;
n = 1-3;
p = 2-6.

MORE SPECIFICALLY

L = (a; n = 1-3) or (b; p = 3) and OL is at the 4-position,
R₁ = R₂, R₃ and R₅ = H;
R₄ = H or Me;
either
(1) R₁ = H;
R₂ = CN, Cl or Me;
(2) R₁ = H;
R₂ = N, CN or Cl; or
(3) R₁ = H or Cl;
R₂ = N, CN or Cl at the 2-position.

USE

(I) are positive inotropic and β -adrenergic agents useful
for treating congestive heart failure. Dose is 0.1-5 mg/kg 1-6
times a day.

SPECIFICALLY CLAIMED

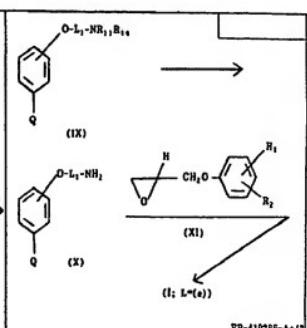
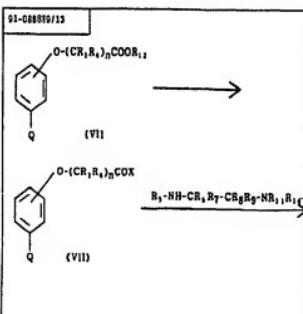
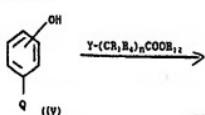
13 Cpd. (I) e.g. 5-(4-(N-(2-(3-phenoxy-1-hydroxypropylamino)ethyl)carboxymethoxyphenyl)-6-methyl-5-oxo-1,2-dihydro-3-pyridinobenzoate (Ia);
5-(4-(N-(2-(3-(1-cyanophenoxy)-25-hydroxypropylamino)-3-phenylmethyl)carboxymethoxyphenyl)-6-methyl-5-oxo-1,2-dihydro-3-pyridinobenzoate (Ib); and
5-(4-(N-(2-(3-(1-chlorophenoxy)-25-hydroxypropylamino)-3-methylpropyl)carboxymethoxyphenyl)-6-methyl-5-oxo-1,2-dihydro-3-pyridinobenzoate.

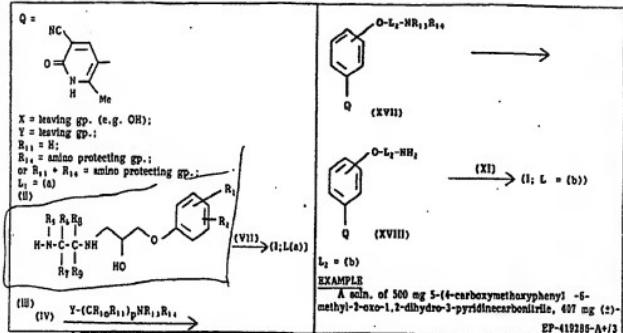
WIDER DISCLOSURE

Intermediates of formula (VI), (VII), (X), (XVII) and (XVIII) are stated to form part of the invention.

PREPARATION

(I)





91-018819/13

-H-(1-methylethyl)-3-hydroxy-3-phenoxypyropylamine and 316 mg diethyl cyanophosphonate in 10 ml DMF is cooled (ice bath) and treated dropwise with 540 µl R_1_3N in 2 ml DMF. After 1 hr, the reaction is quenched slowly with ice cold H_2O , stirred overnight under N_2 , then filtered in vacuo. The residue is chromatographed over silica gel, eluting with $CHCl_3/MeOH/MH_4OH$ (95:10:1). The solid is recrystd. from $EtOAc/MeOH$ to give 185 mg (21%) (Ia), m.p. 135–138° C. (20ppgSHSDwrgf00/0)

(E) ISR: No Search Report.

EP-419285-h/4

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